

ENVIRONMENTAL STRESS PROTECTION SCHEME
FOR A DATA STORAGE DEVICE

Abstract of the Disclosure

5 A system to ensure written data integrity in a data storage device that is operating outside
of predefined normal operating conditions is disclosed. The system includes an environmental
stress monitoring module operable to identify data storage device operation in an environmental
stress condition and a write integrity check module for verifying written data integrity during data
storage device operation in the environmental stress condition. The system and method of data
10 protection provides a means of ensuring written data integrity without sacrificing performance
during normal drive operational environmental conditions.